<u>L.O - To explore 2 digit by 1 digit division.</u> <u>success criteria</u>

>To use concrete and written methods to solve division problems.

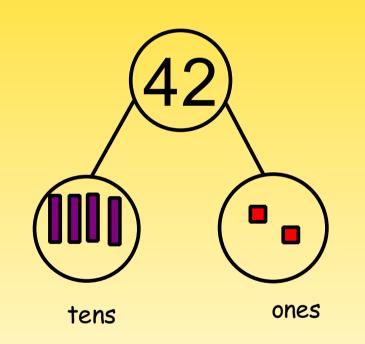
>To use known multiplication facts to solve division questions.

>To partition 2 digit numbers into tens and ones.>To problems solve and reason with division.

Key vocabulary: division, partition, tens, ones, exchanging, dividing

Insert white rose hub video to explain method

Did you know there are other ways to partition large number into smaller parts? Have a look at the calculation below to see why we need to know this.



now have a look and try to divide these tens and ones evenly by 3 and share them equally.

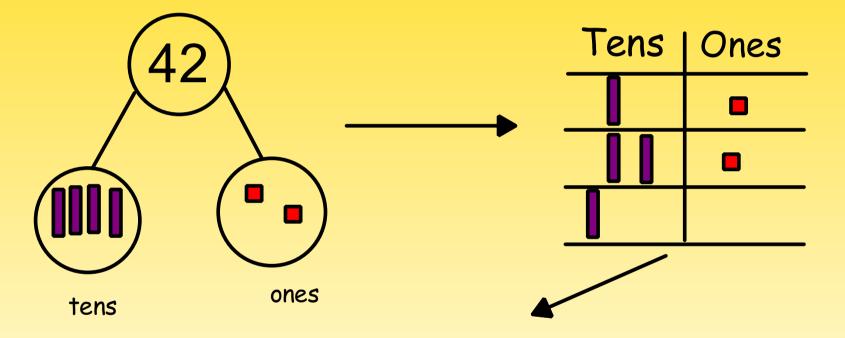
what problem are we going to have?

Now we know that 42 contains 4 tens and 2 ones.



42 ÷ 3 =

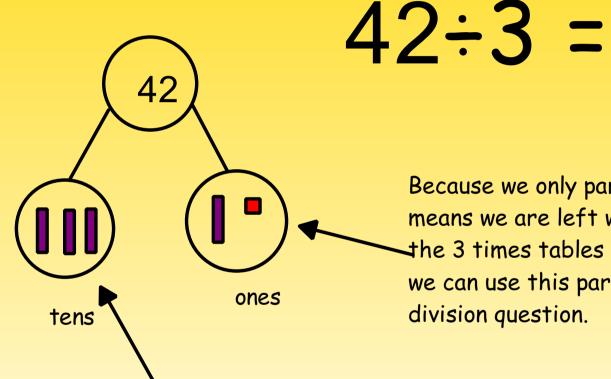
What problem are we going to have?



YOU CANNOT SHARE 4 TENS AND 2 ONES EQUALY 3 WAYS.

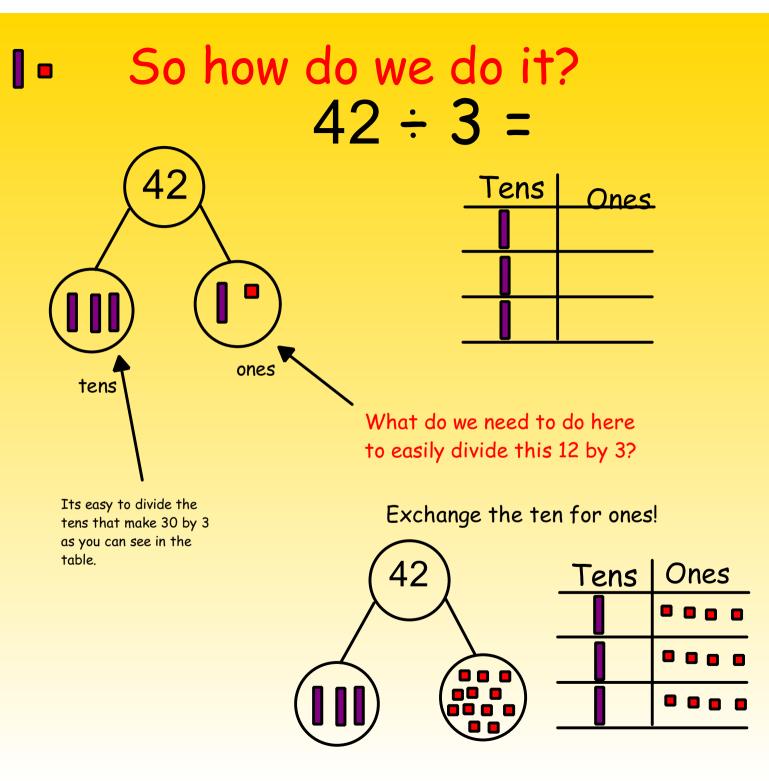
So how do we do it?

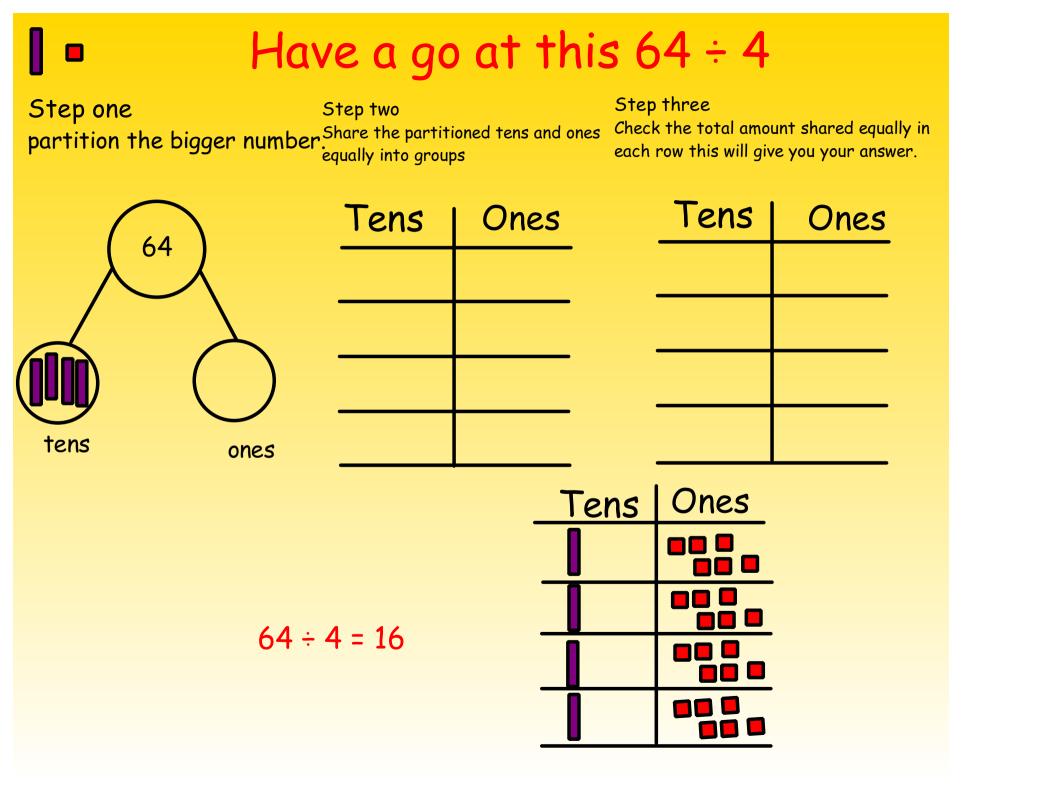
We are going to have to use our times tables knowledge. Because we are dividing by 3 this time we will be using 3 x tables facts.



Because we only partitioned 30 this means we are left with 12. 12 is also in the 3 times tables to and therefore we can use this partition to solve our division question.

I know that 3 x 10 is 30. Also because it is in the 3 x tables I know that means is can be easily divided by 3 into equal parts.





Top Tip - you should always try to partition a number using your 10 x table knowledge. For example when calculating $78 \div 6$ we know that 6 x 10 is 60, and therefore the remainder is 18 which is 6 x 3.

Fluency: 52 ÷ 4 = 96 ÷ 8= 36 ÷ 3 = 51 ÷ 2 = Top Tip - you should always try to partition a number using your 10 x table knowledge. For example when calculating $78 \div 6$ we know that 6 x 10 is 60, and therefore the remainder is 18 which is 6 x 3.

Fluency: 52 ÷ 4 = 13 96 ÷ 8= 12 36 ÷ 3 =12 51 ÷ 3 = 17